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ABSTRACT OF THE DISCLOSURE

A method of treating animal manure solids comprises contacting the solids with a treatment composition comprising AlCl₃·nH₂O or Al(NO₃)₃·mH₂O, or the residue of

5 AlCl₃·nH₂O or Al(NO₃)₃·mH₂O, to form a treated waste product, wherein n is from 0 to 10, and m is from 0 to 12. The treatment amount can be effective to reduce phosphorus solubility in the manure; reduce phosphorus runoff and/or phosphorus leaching from fields fertilized with manure; inhibit ammonia volatilization from the manure; flocculate solids in the manure; reduce pathogens in the manure; increase the nitrogen content in the manure; and/or reduce acid rain and PM-10s associated with the manure.